

PRODUCT DATA SHEET

Avery Dennison® DOL 1000 Series

Issued: 05-2014

Introduction

Avery Dennison DOL 1000 Series is a premium quality, flexible, high gloss cast laminate film designed for use as a protective overlaminating film for digitally printed images, especially on vinyl films. Avery Dennison DOL 1000 Series in combination with our cast vinyl films offer the best protection against colour fading, UV radiation and abrasion which improves the durability of the image.

Description

Film : premium quality 50 micron cast vinyl
DOL 1000 Gloss Clear
DOL 1100 Matt Clear

Adhesive: permanent, acrylic based

Backing: white bleached kraft paper, 130 g/m²

Conversion

For processing tips and reference guides please refer to Technical Bulletins:

- 5.3 Recommended combinations of Avery Dennison overlaminates and Avery Dennison Digital Print Media.
- 5.4 Processing tips for Avery Dennison DOL films.

Uses

Protective overlaminating film for digital printed images on flat or curved substrates. For indoor and outdoor use.

Do NOT use combination of Avery Dennison digital media and Avery Dennison DOL 1000 Series on corrugated or riveted surfaces.

Features

- Premium quality, flexible, durable cast laminate.
- Enhances colours of image.
- Improves durability of image (up to 5 years).
- Protects against UV radiation and abrasion.

Note

The durability of a printed image always depends on the toner/ink, film, used overlaminate, processing and exposure conditions.



Inspired Brands
Intelligent World.™

graphics.averydennison.eu

Physical properties

| Features | Test method ¹ | Results |
|------------------------------|---------------------------------|----------------|
| Caliper, facefilm | ISO 534 | 50 micron |
| Caliper, facefilm + adhesive | ISO 534 | 80 micron |
| Gloss | | |
| DOL 1000 Gloss | ISO 2813, 20° | 70 % |
| DOL 1100 Matt | ISO 2813, 85° | 25 % |
| Dimensional stability | FINAT FTM 14 | max. 0.2 mm |
| Adhesion, initial | (ASTM 1000), stainless steel | 525 N/m |
| Adhesion, ultimate | (ASTM 1000), stainless steel | 700 N/m |
| Shelf life | Stored at 230C/50-55% RH | 2 years |
| Durability ² | Vertical exposure | 7 years |

Temperature range

| Features | Results |
|-------------------------|------------------------|
| Application temperature | See Technical Bulletin |
| Service temperature: | - 40 °C to + 80 °C |

Chemical properties

| Features | Results |
|---------------------|--|
| Chemical resistance | Resistant to most petroleum based oils, greases and aliphatic solvents. Resistant to mild acids, alkalis, salts. |

Prolonged immersion in gasoline and similar fluids is not recommended.

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features.

For good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24h. before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.

Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% RH (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.

Important

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

Avery Dennison® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website.

2) Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.